

ABSTRACT OF THE DISCLOSURE

The present invention relates to an electrochemical cell having a controlled electrode surface, comprising:

- a first electrode and a second electrode wherein at least one of the first and second electrodes has a carbonaceous surface;
- an electrolyte containing at least one solvent;
- an additive associated with the carbonaceous surface of at least one of the first and second electrodes, wherein the additive comprises a compound having a molecular weight of not less than 105.